

7. The method according to claim 6, further comprising: calculating reputation scores for the respective users based on the highlights and/or annotations they made in the respective at least one electronic documents;

wherein, the keywords presented to the user are configured so that, when one of the keywords is clicked or tapped by the user, the identifiers of all the users that have highlighted or annotated the keyword are presented, and

wherein, the identifiers of the users presented are configured so that, when one of the identifiers of the users is clicked or tapped, the reputation score of the user with the identifier is presented, together with links to the highlighted parts and/or annotations made by the user with the identifier.

8. The method according to claim 1, further comprising: creating user profiles including the extracted keywords from highlighted parts and/or annotations in the at least one electronic document made by the respective users;

wherein the using the keywords as tags of the at least one electronic document to provide personalized contents from the at least one electronic document to a user comprises:

for at least one keyword in the user profile of the user, calculating recommendation scores for the at least one electronic document based on the importance scores of the at least one keyword in the respective at least one electronic document;

ranking the at least one electronic document by their recommendation scores; and

9. The method according to claim 8, wherein the calculating recommendation scores for the at least one electronic document based on the importance scores of the at least one keyword in the respective at least one electronic document comprises:

for a keyword in the user profile of the user, calculating a recommendation score for an electronic document as the multiplication of the importance score of the keyword in the electronic document and the number of occurrences of the electronic document in the body of electronic documents divided by the number of occurrences of the keyword in the body of electronic documents.

10. An apparatus, comprising:

at least one processor; and

at least one memory including computer program code, the at least one memory and the computer program code configured to, with the processor, cause the apparatus to at least:

receive highlights and/or annotations in at least one electronic documents made by at least one users;

extract keywords from the respective at least one electronic documents with the highlights and/or annotations as tags of the respective at least one electronic documents; and

use the keywords as tags of the respective at least one electronic documents to provide personalized contents from the at least one electronic documents to a user.

11. The apparatus according to claim 10, wherein the at least one memory and the computer program code are further configured to, with the processor, cause the apparatus to:

receive keywords input by the at least one users as additional tags of the respective at least one electronic documents.

12. The apparatus according to claim 10, wherein to extract keywords from the respective at least one electronic documents

with the highlights and/or annotations as tags of the respective at least one electronic documents comprises:

for an electronic document in the respective at least one electronic documents, to calculate an importance score of each word in the electronic document with highlights and/or annotations as the occurrence frequency of the word in the electronic document with highlights and/or annotations relative to the occurrence frequency of the electronic documents including the word in a body of electronic documents;

to identify a predetermined number of words with the highest importance scores in the electronic document with highlights and/or annotations as the keywords of the electronic document;

wherein the at least one memory and the computer program code further configured to, with the processor, cause the apparatus to

record the extracted keywords with their importance scores in association with the respective at least one electronic document, the highlighted parts and/or annotations in the respective at least one electronic documents from which they were extracted, and the users making the highlights and/or annotations.

13. The apparatus according to claim 12, wherein the occurrence frequency of the word in the electronic document with highlights and/or annotations comprises a weighted sum of the occurrence frequencies of the word in the annotations and/or in the highlighted parts and in the other parts of the electronic document.

14. The apparatus according to claim 10, wherein to use the keywords as tags of the respective at least one electronic document to provide personalized contents from the respective at least one electronic document to a user comprises:

in response to a user's request for an electronic document, to provide the electronic document to the user together with a user interface control, the user interface control configured to enable the user to select to be presented at least one of the following:

highlighted parts of the electronic document marked by users, annotations in the electronic document made by users; and extracted keywords from the electronic document.

15. The apparatus according to claim 10, wherein to use the keywords as tags of the at least one electronic document to provide personalized contents from the at least one electronic document to a user comprises:

in response to a user's request for an electronic document, to provide to the user a user interface control in association with the electronic document with highlights and/or annotations, the user interface control configured to enable the user to select a threshold, so that only the keywords of the electronic document with highlights and/or annotations having importance scores above the threshold are presented to the user.

16. The apparatus according to claim 15, wherein the at least one memory and the computer program code are further configured to, with the processor, cause the apparatus to:

calculate reputation scores for the respective users based on the highlights and/or annotations they made in the respective at least one electronic document;

wherein, the keywords presented to the user are configured so that, when one of the keywords is clicked or tapped by the user, the identifiers of all the users that have highlighted or annotated the keyword are presented, and